

Broadcast

User Guide

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EDIUS

version 4.6

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1

Before Installation

Thank you for purchasing Grass Valley product.
This is the manual for "EDIUS Broadcast".

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2

P2 Option

How to Use P2 Option

Using P2 Importer - Import

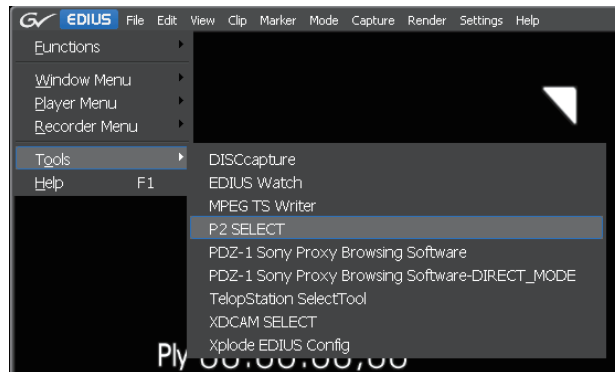
Connect P2 device to the computer and confirm that the power of P2 device is turned ON.

Notes

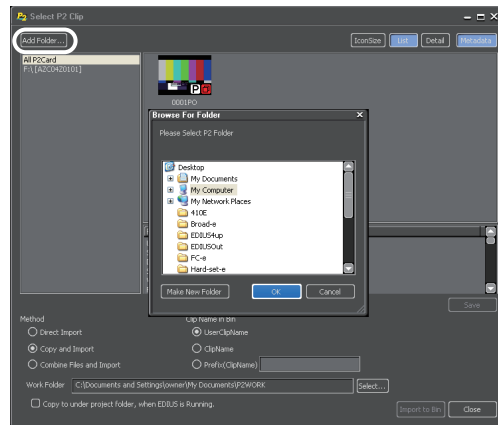
- The attached USB hardware key must be inserted to the computer's USB port when using EDIUS Broadcast.
- Options for AVC-Intra are optional. If you have AVC-Intra Option you can import AVC-Intra formats.

1 Start EDIUS.

2 Click EDIUS mark, and select "Tools" → "P2 SELECT".

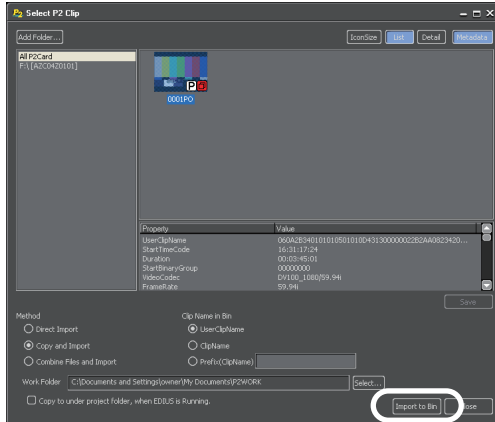


When P2 card has been inserted in the P2 drive, a list of P2 cards appears automatically on the folder list. Click [Add Folder] and select the folder if the P2 clips have been copied on to the local disk (hard disk).



3 Files in P2 Drive are displayed. Select import method, work folder, and clip name settings, and click [Import to Bin].

Clips are displayed on EDIUS bin window.



Method	<p>Select the import method of P2 files.</p> <p>Direct Import Import files directly from P2 drive.</p> <p>Copy and Import Copy files on hard disk at the time of import, and display in the bin.</p> <p>Combine Files and Import Convert image/audio files into one MXF file and copy on the hard disk at the time of import, and display in the bin.</p>
Clip Name in Bin	<p>Setup the clip names for the thumbnails displayed in the bin.</p> <p>UserClipName Define User clip name.</p> <p>ClipName Use Clip name.</p> <p>Prefix (ClipName) Specify characters added at the beginning of the clip name.</p>
Work Folder	Select folder for copying P2 files.
Copy to under project folder, when EDIUS is Running.	Check it to copy P2 files into the project folder you are editing when starting up EDIUS, regardless of the setting of Work Folder.

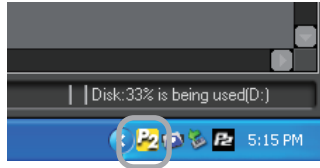
POINT

- P2 clips can be used in the same way as AVI clips when using EDIUS. Realtime performance level when editing from hard disk is equal to that of AVI files. The performance when editing directly from P2 drive is 2 realtime streams in DV and 1 realtime stream in DVCPRO 50*.
- * Actual measurements were taken in-house. USB performance depends on the system being used.

Transferring P2 Data in Background

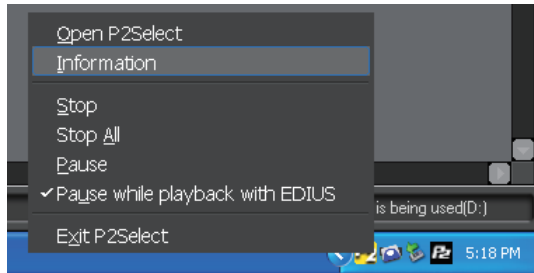
Select "Copy and Import" when importing P2 data to copy P2 files in background while editing. Use this option, for example, to delete contents of P2 card for some reason.

When selected "Copy and Import" in Method, data transfer is processed in background and P2 icon is flashing in the task tray while the operation.

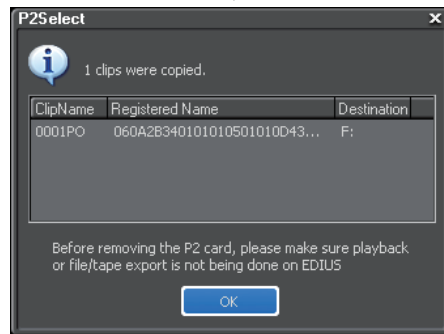
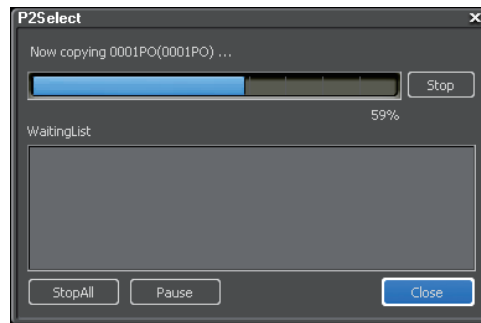


Checking the Progress of Background Transfer

1 Right-click the flashing icon and click "Information".



The dialog box to show the progress of transfer appears.



Editing Proxy Clip

When handling proxy clips in laptop type video editing systems or in offline editing, edit a temporary project file and copy it to the source server or PC hard disk, import the file to the actual project file in which source clips are saved, and relink files. The procedure is as follows.

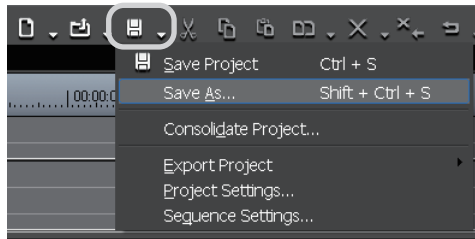
POINT

- To import proxy clips, P2 viewer is required to be installed. P2 viewer is available for no charge on Panasonic Web site.
- HD P2 clips and P2 proxy clips can be edited.
- When using a format supported by DVCPRO (Ex. 1280 x 1080 59.94i), sources are imported directly from P2 card. HD P2 clips are not copied to the hard disk of a laptop type non-linear video editing systems.
- P2 proxy clips are imported directly from an SD card. P2 proxy clips saved on a P2 card are not supported.

1 Edit a temporary project file as a proxy clip.

Select a format supported by DVCPRO (Ex. 1280 x 1080 59.94i) for the editing format. For the details on starting up EDIUS, project settings or editing, refer to the reference manual.

2 Click the list button of the [Save project], and click "Save As".



3 Enter a file name in "Save As" dialog box and save it to the source server.

4 Create a master project file on the PC to edit the project.

Select editing format according to the output format.

For the details on starting up EDIUS or project settings, refer to the reference manual.

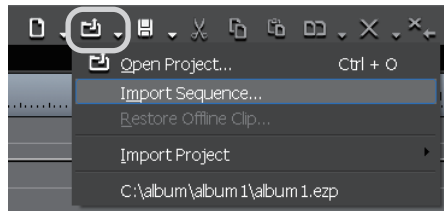
5 Import P2 clips with P2 SELECT.

Using P2 Importer - Import ► P2

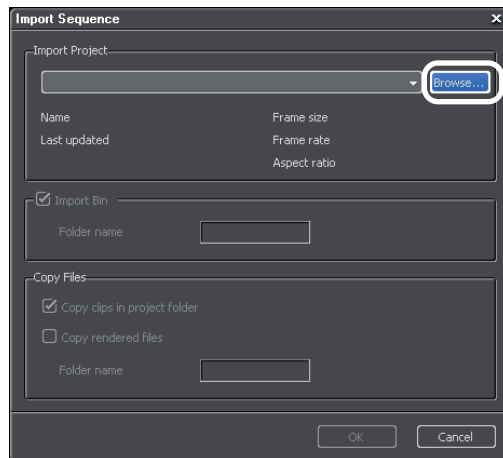
Notes

- When importing P2 clips with P2 SELECT, change the work folder by each temporary project to avoid overlapping of the clip name. If the clips with the same name are imported, the first 4 digits of the file name will be automatically changed, and this may cause a failure of restoring offline clips.

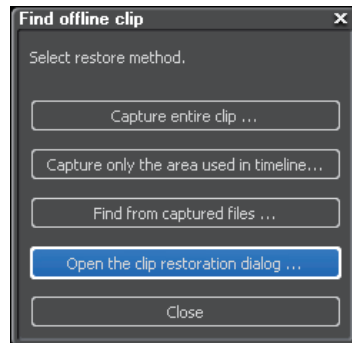
6 Click the list button of [Open project], and click "Import Sequence".



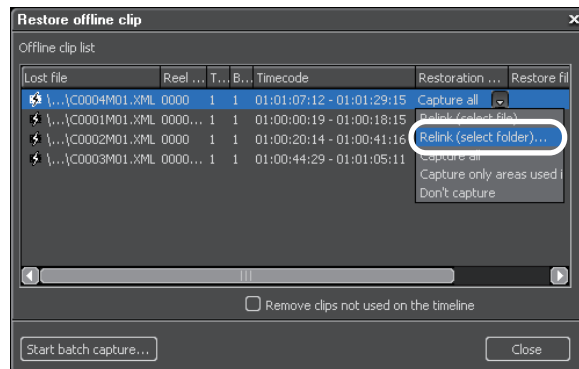
7 Click [Browse], select the temporary project file, and click [OK].



- 8 Click "Open the clip restoration dialog" in "Find offline clip" dialog box.**



- 9 Select "Relink (select folder)" from "Restoration Method" list, and select the folder where P2 clips are imported.**



When selecting multiple offline clips and selecting "Relink (select folder)", all clips in the folder are restored.

Notes

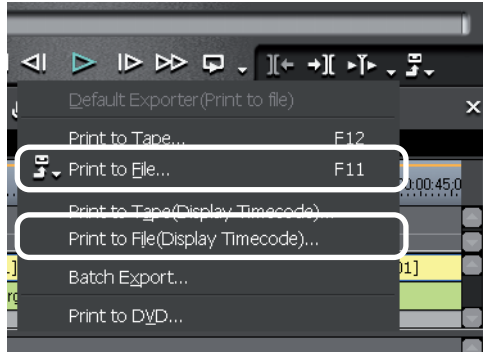
- When selecting "Relink (select folder)" and the restoration fails, select "Relink (select file)" for the restoration method, and select an XML file.

- 10 Click [Close].**

Using P2 Clip - Writing Back on P2 Card

Connect P2 device to the computer and confirm that the power of the device is turned ON.

1 Click [Export] - "Print to File" or "Print to File(Display Timecode)".



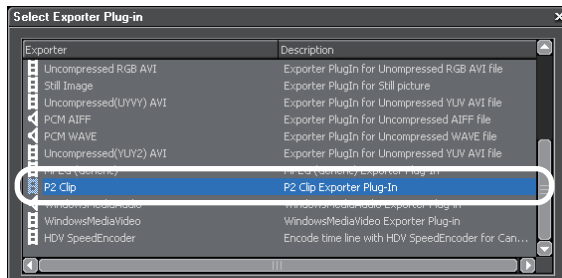
Notes

- Data is exported as 16-bit audio when the project preset is set to 24-bit audio.

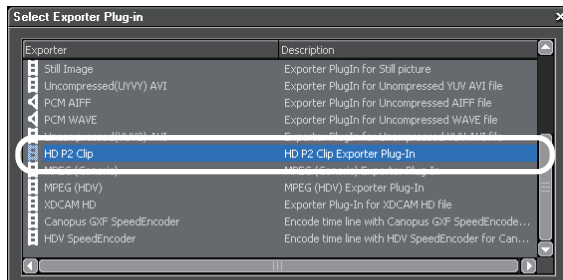
2 Select the exporter plug-in and click [OK].

Select "P2 Clip". If your current timeline is in SD resolution, the P2 clip for SD will appear. If your current timeline is using DVCPRO HD preset, HD P2 Clip appears.

SD resolution



HD resolution



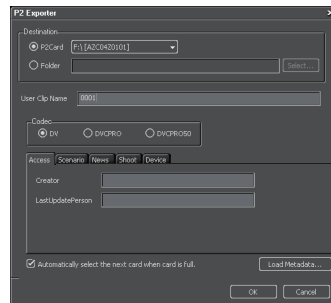
Notes

- "P2 Clip" is not listed when the timeline preset is set to HD. "HD P2 Clip" is not listed when the timeline preset is set to SD.

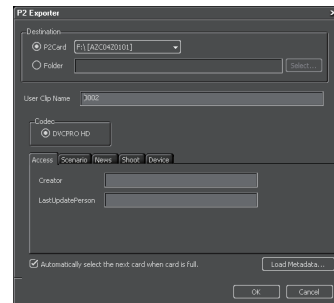
3 Select P2 card for rewriting, and set the name and Codec.

* The displayed contents differs depending on the selected exporter plug-in.

When selecting "P2 Clip"

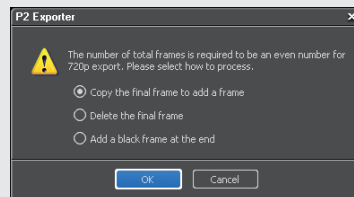


When selecting "HD P2 Clip"



POINT

- Metadata can also be set.
- The number of total frames is required to be even number for 720p export. Select the process method.



- When the output format of DVCPRO HD and the project preset of EDIUS are different, the clip is stretched to be output, so that the frame rate and the field order correspond to each other.

3

VARICAM Option

How to Use VARICAM Option

Using VARICAM Option

Before using VARICAM Option, EDIUS system and AJ-HD1400/AJ-HD1200A are required to be connected with an IEEE1394 cable.

Notes

- The attached USB hardware key must be inserted to the computer's USB port when using EDIUS Broadcast.

- 1 Start EDIUS.
- 2 Select the preset to use from the "Output format" in the "Project Settings" dialog box shown at the startup.

960x720 59.94p:

When exporting to a tape or a file, outputs in 720/59.94p.

960x720 23.98p over 59.94p:

When exporting to a tape or a file, outputs in 720/23.98p over 59.94p.

960x720 29.97p over 59.94p:

When exporting to a tape or a file, outputs in 720/29.97p over 59.94p.

960x720 24p over 60p:

When exporting to a tape or a file, outputs in 720/24p over 60p.

960x720 25p over 60p:

When exporting to a tape or a file, outputs in 720/25p over 60p.

960x720 50p over 60p:

When exporting to a tape or a file, outputs in 720/50p over 60p.

960x720 50p:

When exporting to a tape or a file, outputs in 720/50p.

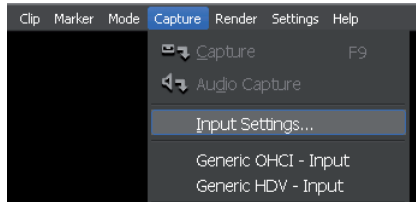
960x720 25p over 50p:

When exporting to a tape or a file, outputs in 720/25p over 50p.

Notes

- To enable input/output through IEEE1394, set the frequency of VCR to 59.94Hz, even when the material has been shot in the frame frequency of 60.00Hz.
- If the TC of the starting frame on the timeline is not set to 00, the TC of the output stream and the sequence of the active stream information may not match.

3 Select "Capture" to open "Input Settings" dialog box.



4 Select "Generic OHCI Input" for "Input device", and select a preset to use.

DVCPRO HD 720/59.94p:

Use this when capturing materials taken with VARICAM without referring active frame information or capturing contents taken with AJ-HDX900, which format signals are 720/59.94p, 720/29.97p or 720/23.98p.

DVCPRO HD 720 Constant Rate Shooting over 59.94p:

DVCPRO HD 720 Constant Rate Shooting over 60p:

Select the corresponding profile to the frame frequency of the VARICAM used while shooting. Only the frames where active frame information is set will be captured.

DVCPRO HD 720/50p:

Use this when capturing contents taken with AJ-HDX900, which format signals are 720/50p and 720/25p.

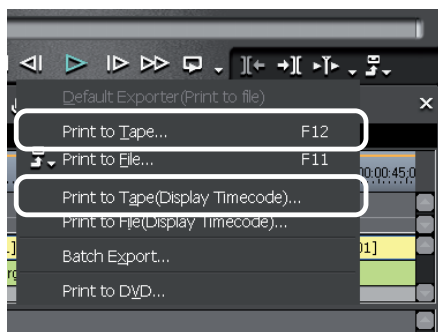
Notes

- If the frame rate of the project is different from that of the material, the speed of the audio will be changed according to the duration, thus changing the audio pitch. Adjust the audio with a waveform editing software or the Pitch Shifter in the VST Plug-in, if necessary.
- The following functions may not work properly on the files captured in "DVCPRO HD 720 Constant Rate Shooting over 59.94p" or "DVCPRO HD 720 Constant Rate Shooting over 60p" preset.
 - Match frame jump
 - Import/Export EDL
 - Restore offline clip
- Import/Export EDL is not supported in the VARICAM option presets.
- Video output is not supported while editing.

Exporting Clips

You can export clips which have been edited on EDIUS, to your AJ-HD1400 or AJ-HD1200A.

1 Click [Export] - "Print to Tape" or "Print to Tape(Display Timecode)".



Notes

- The audio sampling rate differs depending on whether the frame frequency is 59.94Hz or 60.00Hz.
- When the frame rate is changed in one shot, the lip sync will be shifted. If necessary, use a waveform editing software to adjust the lip sync before exporting.

To shoot video taking advantage of the characteristics of VARICAM

To realize smooth slow-motion or quick-motion, making full use of the characteristics of VARICAM, the desired speed of the result clip should be calculated in advance.

The final playback speed is calculated as below.

$$\text{Playback speed (\%)} = \frac{\text{Frame rate of the timeline}}{\text{Frame rate during video shooting}} \times 100$$

"Under-crank" and "Over-crank"

- Under-crank
Method to shoot video in slow speed, which enables visual effects such as warp effect, strobe effect or ghost effect.
- Over-crank
Method to shoot video in high speed, which enable smooth video with higher frame rate, and enables slow-motion in higher quality.

Notes on setting quick-motion using under-crank method

- Shoot video in a lower frame rate than the frame rate of the playback.
Ex. Shoot video in 15p and create timeline in 30p, then the clip will be played in quick-motion, twice as fast as the original speed.
- Select the corresponding capture format ("DVCPRO HD 720 Constant Rate Shooting over 59.94p" or "DVCPRO HD 720 Constant Rate Shooting over 60p") to the frame frequency of VARICAM used while shooting. When captured in this mode, only the active frames will be captured, making the file available for variable frame rate editing.

Notes on setting slow-motion using over-crank method

- Shoot video in a higher frame rate than the frame rate of the playback.
Ex. Shoot video in 45p and create timeline in 30p, then the clip will be played in slow-motion at 2/3 of the original speed.
- Select the corresponding capture format ("DVCPRO HD 720 Constant Rate Shooting over 59.94p" or "DVCPRO HD 720 Constant Rate Shooting over 60p") to the frame frequency of VARICAM used while shooting. When captured in this mode, only the active frames will be captured, making the file available for variable frame rate editing.

In case the clip does not need to be in slow-motion/quick-motion

- Select 60p (59.94p) as the capture format.
- When captured in this mode, the clip will maintain the actual duration at the time of shooting. As the speed setting can be applied, both slow-motion and quick-motion can be realized, while this is not the best method to make full use of the features of VARICAM.

For more information, refer to the manual for VARICAM or the web page of Matsushita Electric Industrial Co., Ltd.

4

XDCAM Option

How to Use XDCAM Option

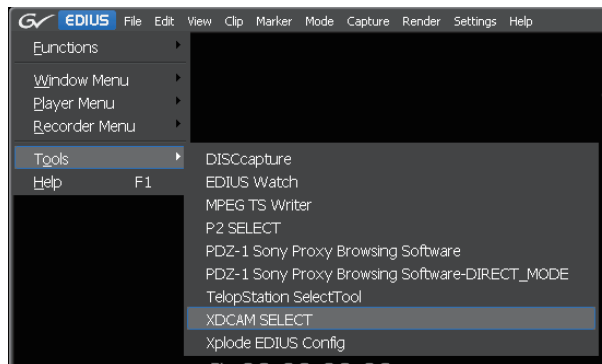
Downloading from XDCAM Recorder

You can download data to the local disk through a network with a device connected to the LAN, or through a device connected to i.LINK. The following procedure describes how to download data from a device connected to i.LINK.

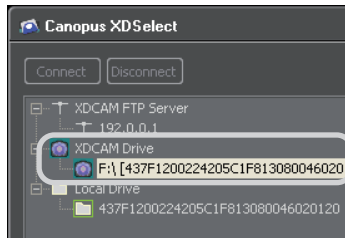
- POINT**
- Refer to the attached XDCAM manual for the information on Network settings and IEEE1394 connection.
 - XDCAM option supports SAM mode.

- Notes**
- The attached USB hardware key must be inserted to the computer's USB port when using EDIUS Broadcast.

1 Click EDIUS mark, and click "Tools" → "XDCAM SELECT".



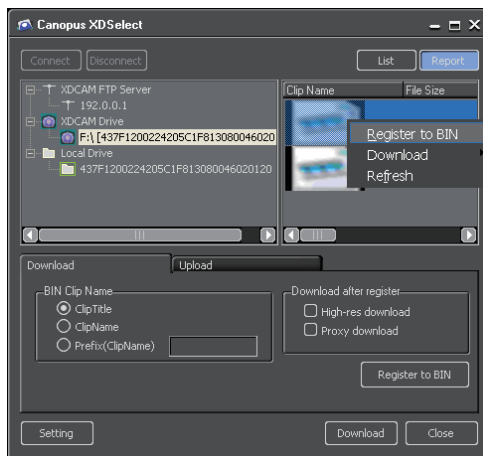
2 Select the drive where the device connected to i.LINK.



POINT

- When you download data from a device with LAN connection through network, select the address and click [Connect].

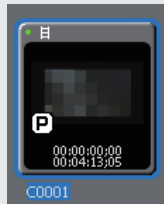
3 Right-click the clip to store in the bin of EDIUS, and click "Register to BIN".



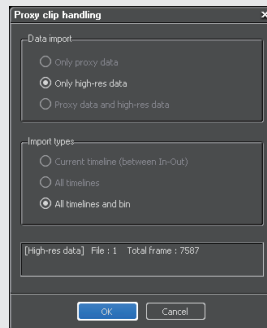
The clip is stored in the bin.

POINT

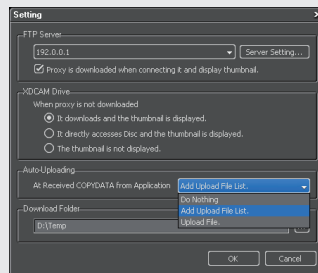
- It is recommended to check "Proxy download" in "Download" tab. The icon [P] appears on the thumbnail in the bin. The icon [X] appears when it is not checked.



- Click "File" on the menu bar, click "Proxy clip handling" and select the data type and the range to download in "Proxy clip handling" dialog box, to download proxy data or high-res data later.



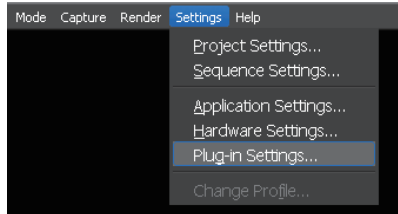
- Proxy clips that do not have high-res data cannot be handled in clip rendering or partial rendering.
- To download a file through a network with a device connected to the LAN, click [Setting] on Canopus XDSelect screen to display "Setting" dialog box.



- Set the server, auto-uploading when data is exported from the application and download destination in "Setting" dialog box, and click [OK]. Then, click [Connect] in "Canopus XDSelect" dialog box.

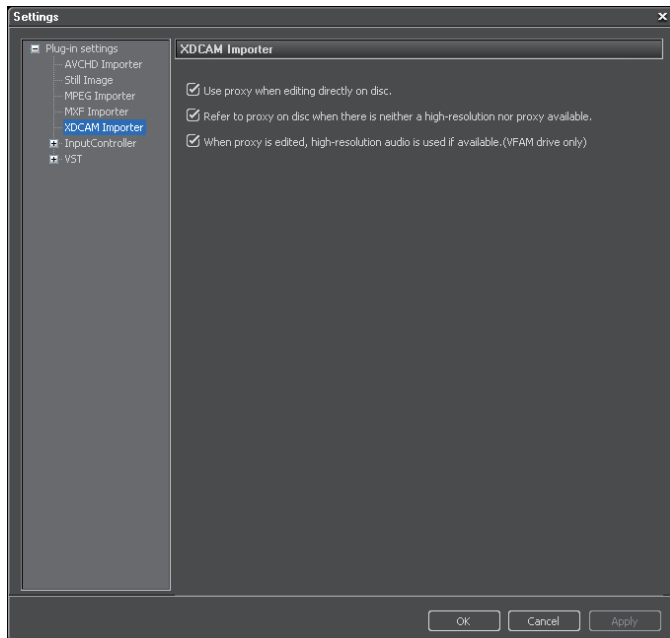
Setting for Import

- 1 Click "Settings" on the EDIUS menu bar, and click "Plug-in Settings".



"Plug-in settings" dialog box appears.

- 2 Click "Plug-in settings" tree, and click "XDCAM Importer".



Use proxy when editing directly on disc.

Use a proxy file for normal edit when directly editing the clip on XDCAM disc. Use a high-resolution file when printing to file or tape.

Refer to proxy on disc when there is neither a high-resolution nor proxy available.

Refer to the proxy file on XDCAM disc corresponding to the clip when there is only a metadata of the clip downloaded to the local drive.

When proxy is edited, high-resolution audio is used if available. (VFAM drive only)

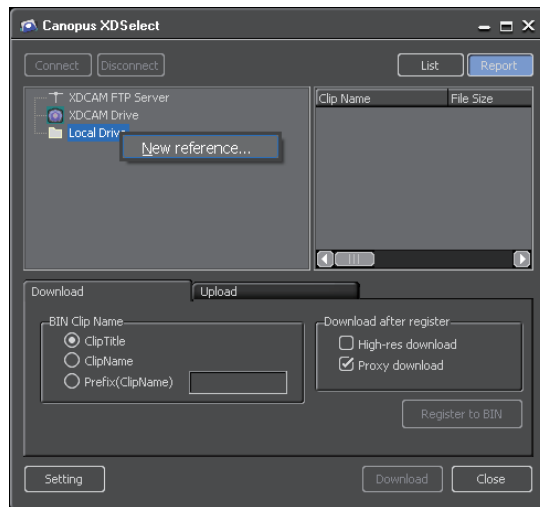
For data on VFAM drive, use high-resolution audio data to edit proxy.

3 Set each item and click [OK].

Importing from Local Drive

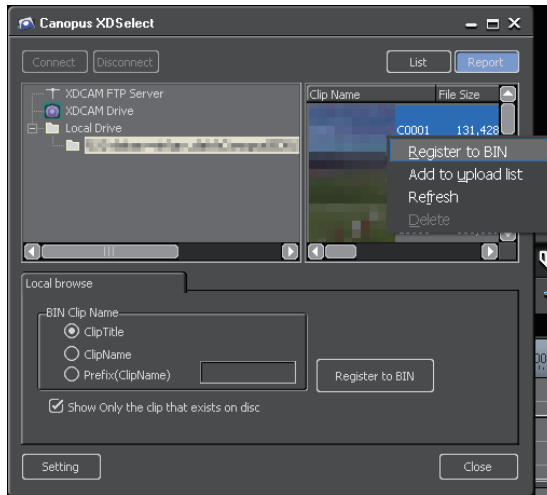
1 Start "XDCAM SELECT".

2 Right-click the "Local Drive", and click "New reference".



3 Specify a local folder and click [OK].

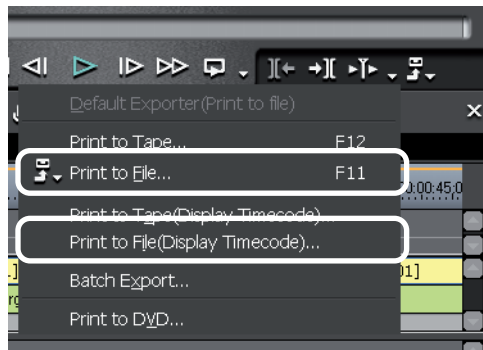
- 4 Right-click the clip to store in the bin of EDIUS, and click [Register to BIN].



The clip is stored in the bin.

Uploading to XDCAM Recorder from the Timeline

- 1 Click [Export] - "Print to File" or "Print to File(Display Timecode)".

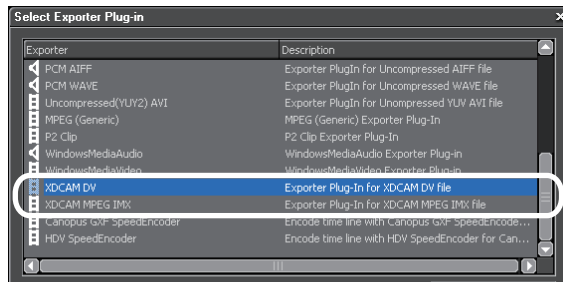


"Select Exporter Plug-in" dialog box appears.

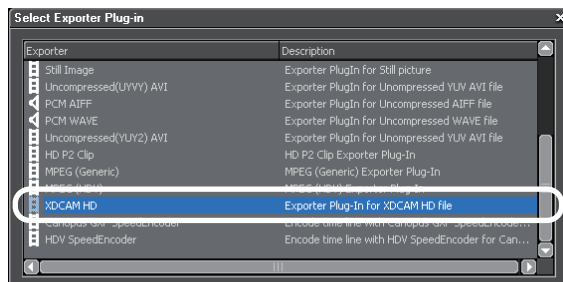
- 2 Select the exporter plug-in and click [OK].

Select "XDCAM DV" or "XDCAM MPEG IMX" when editing in SD resolution preset.
Select "XDCAM HD" when editing in HD resolution preset.

SD resolution

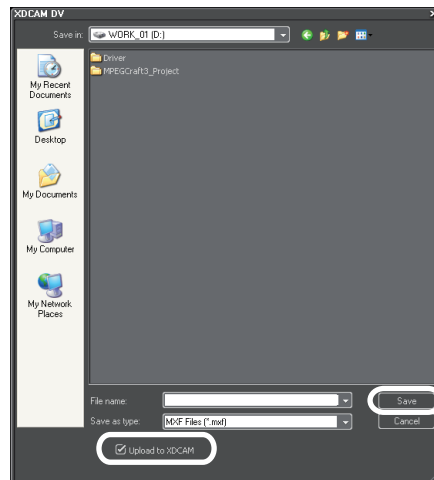


HD resolution



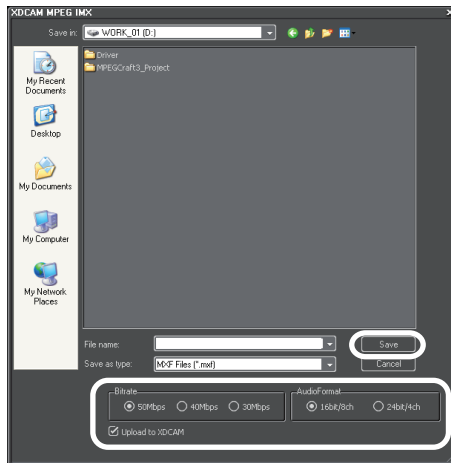
- 3 Check "Upload to XDCAM", confirm that the file name and the file type has been set to "MXF File", and then click [Save].

When selecting "XDCAM DV"



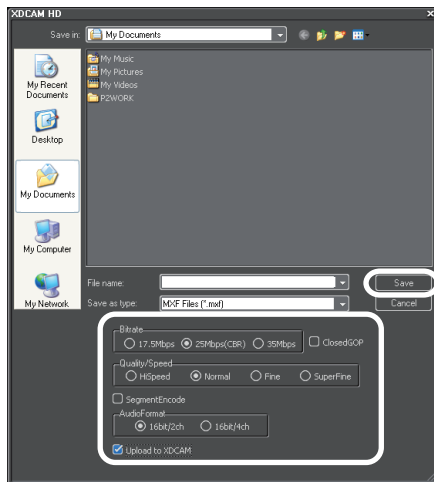
When selecting "XDCAM MPEG IMX"

Set "Bitrate" and "AudioFormat" when selecting "XDCAM MPEG IMX".



When selecting "XDCAM HD"

Set "Bitrate", "Quality/Speed" and "AudioFormat" when selecting "XDCAM HD".

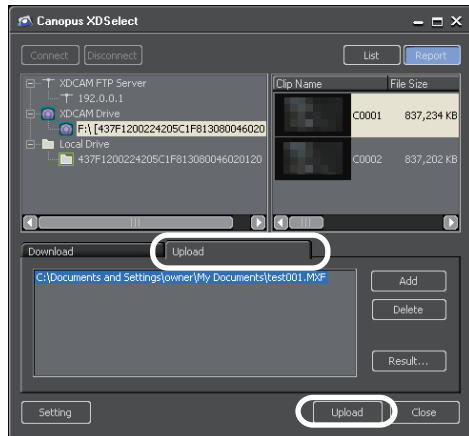


"Canopus XDSelect" dialog box appears.

POINT

- The dialog box to set up the option before output appears when exporting clips that do not include proxy or high-res data. Select the way to handle the progress and click [OK].

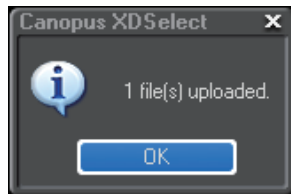
4 Select "Upload" tab, check if the clips to upload are listed and click [Upload].



Copy of the files starts.

POINT • Click [Add], select the file and click [Open], to add files to upload.

5 Click [OK].



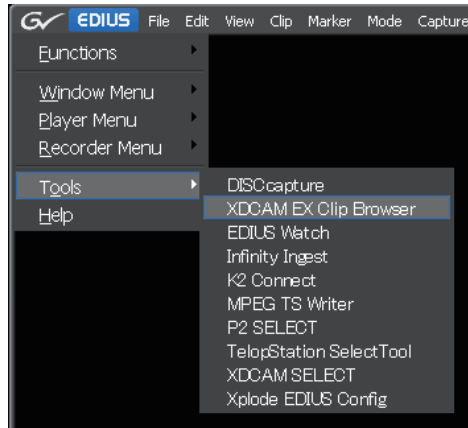
POINT • The name of the file to be created in XDCAM Recorder is automatically set. To check the file name, click [Result].

Importing XDCAM EX Clip

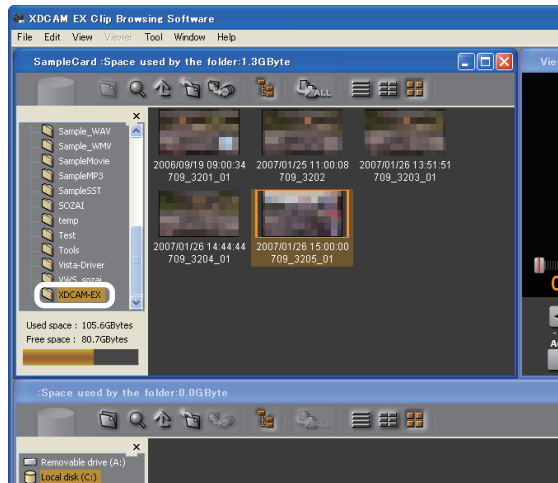
Notes

- Before importing XDCAM EX clips, you need to install the XDCAM EX Clip Browser attached to XDCAM EX camera.

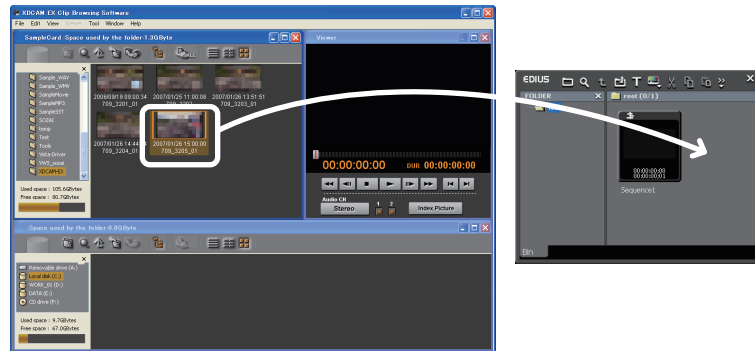
- 1 Click EDIUS mark and click "Tools" → "XDCAM EX Clip Browser".



- 2 Select a folder containing a clip to import in "Information" window of S x S memory card.



3 Drag and drop the clip to the bin window of EDIUS.



The clip is stored in the bin.

POINT

- When importing split clips stored in multiple S x S memory cards, drag and drop the split clips from "Information" window of S x S memory cards to "Information" window of the local disk. The split clips are merged after all split clips stored in multiple S x S memory cards are copied to local disk. Then, drag and drop the merged clip to the bin window of EDIUS.

5

GXF Option

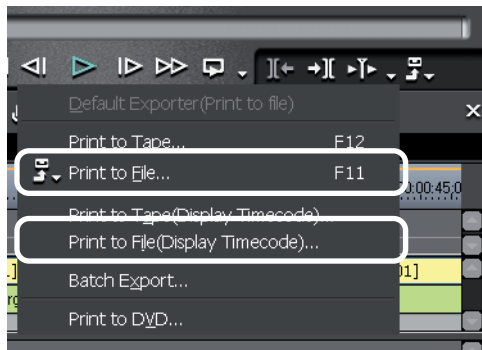
How to Use GXF Option

Using GXF Option

Notes

- The attached USB hardware key must be inserted to the computer's USB port when using EDIUS Broadcast.

- 1 Click [Export], and click "Print to File" or "Print to File(Display Timecode)".

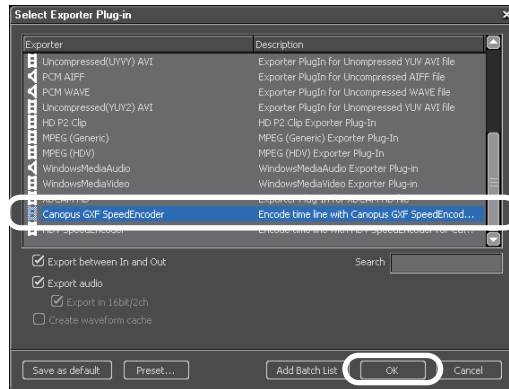


"Select Exporter Plug-in" dialog box appears.

Notes

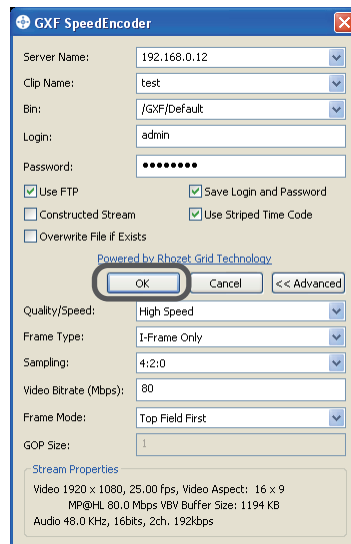
- Data is exported as 16-bit audio when the project preset is set to 24-bit audio.

2 Click "Canopus GXF SpeedEncoder", and click [OK].



"Canopus GXF SpeedEncoder" screen appears.

3 Define the server and click [OK].



* The server that can be selected differs depending on the system environment.
Export of the files starts.

6

Infinity Ingest

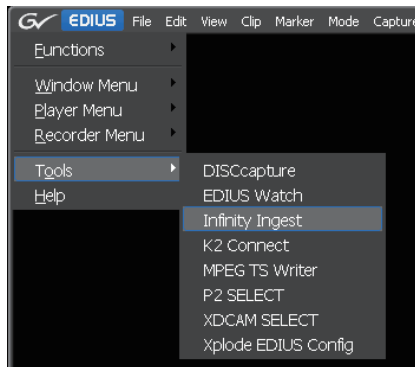
How to Use Infinity Ingest

Using Infinity Ingest

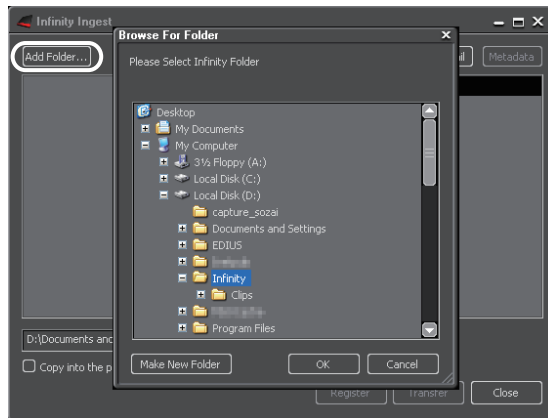
Connect Infinity device to the computer and confirm that the power of Infinity device is turned ON.

Notes • Install the drivers attached to the Infinity device before installing Infinity Ingest.

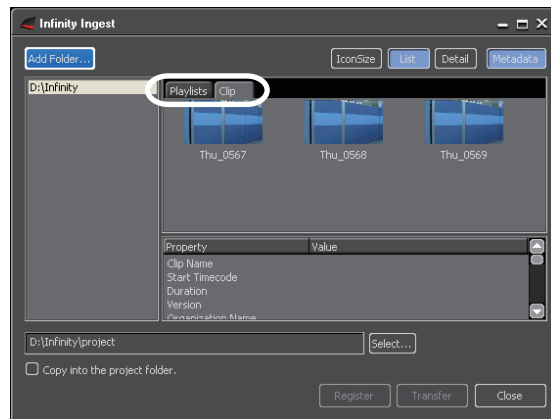
1 Click EDIUS mark and click "Tools" → "Infinity Ingest".



The drive name and volume label of the drive connected with Infinity device are listed in folder view. When the clip is copied to the local disk (hard disk), click [Add Folder] and select the folder.



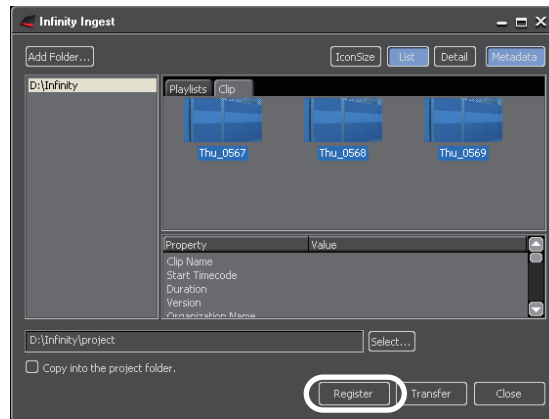
2 Click "Playlists" tab or "Clip" tab.



A list of the playlists/clips in the selected device or folder is displayed.

3 Select the playlist or clip of importing and click [Register].

The clip is registered to the bin window of EDIUS.



Storing location folder	Select a folder to use as copy destination of the playlist/clip. To change the destination, click [Select] and select a folder.
Copy into the project folder.	Check it to copy files into the current project folder while EDIUS is running, regardless of the setting of "Storing location folder".
Register	Register the file directly in the bin of EDIUS.
Transfer	Copy the file into the folder specified in "Storing location folder" and register it in the bin of EDIUS. The list of the transferred files are displayed when data transfer has completed.
Close	Close the main window. Infinity Ingest and background processing are not terminated.

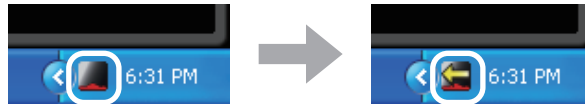
POINT

- The playlist is registered as a sequence clip in the current folder in the bin window of EDIUS. When registering the playlist, a folder with the same name as the playlist is created in the bin and all clips used in the playlist are registered.
- When registering clips, a folder with the same name as the playlist is created and clips are registered in the folder.
- Right-click the clip, and click "Play by EDIUS" while EDIUS is running, to play the clip in Player.

Transferring Files in Background

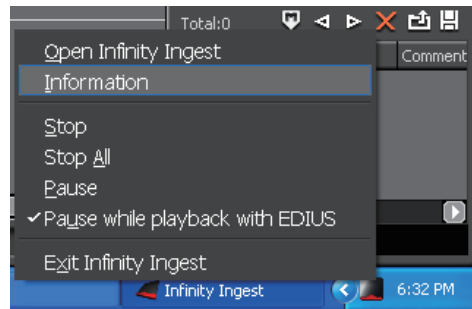
Click [Transfer] when registering the clip, to copy the file into the selected folder in background and to save in the bin simultaneously. Use this option in such cases as deleting contents of the device for some reason.

When selected [Transfer] to register the clip, data transfer is processed in background and Infinity Ingest icon in the task tray changes at certain intervals during the operation.

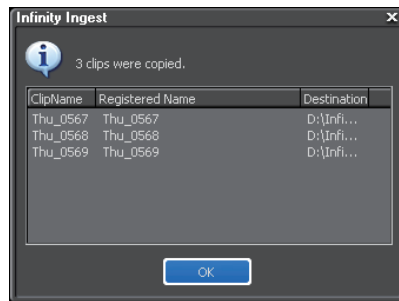
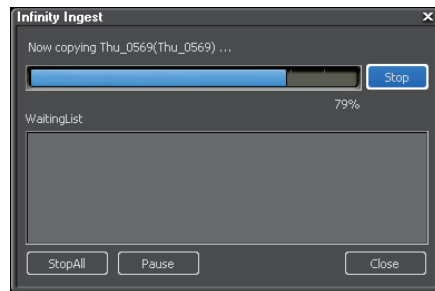


Checking the Progress of Background Transfer

1 Right-click the icon and click "Information".



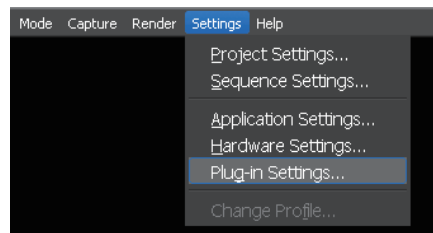
The dialog box to show the progress of transfer appears.



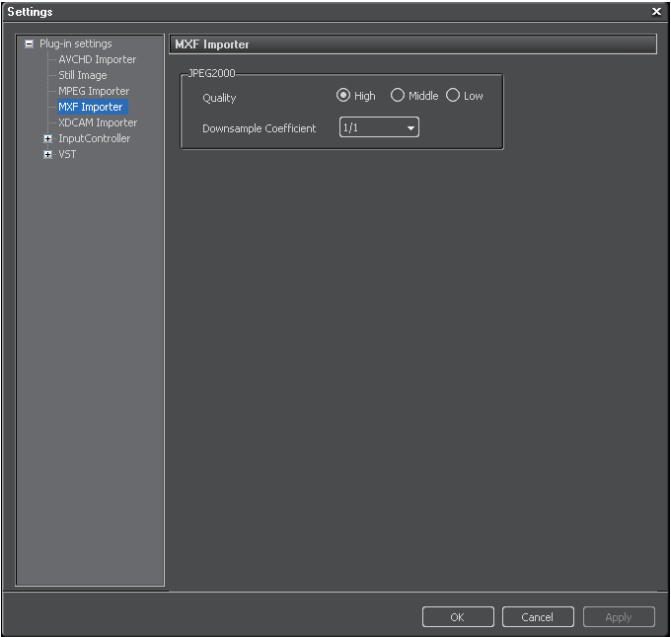
Setting for Import

You can make the settings of video codec for importing an MXF file of JPEG 2000 format.

- 1 Click "Settings" on the menu bar of EDIUS, and click "Plug-in Settings".



2 Click "Plug-in settings" tree, and click "MXF Importer".



Quality	Select a layer to decode.
	High Decode all layers.
	Middle Decode half of the layers.
	Low Decode a layer.
Downsample Coefficient	Specify a downsample (scaling) coefficient for decoding.

3 Set each item and click [OK].

7

K2 Option

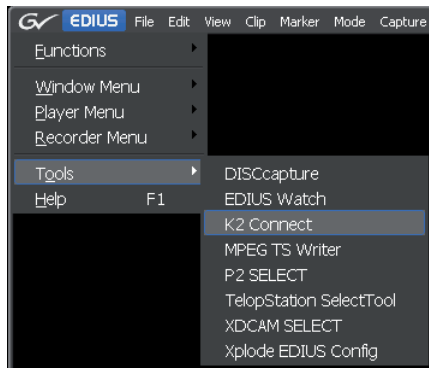
How to Use K2 Option

Using K2 Option

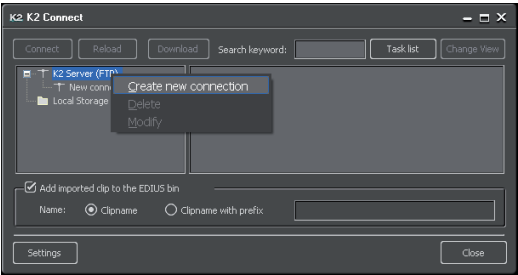
Notes

- The attached USB hardware key must be inserted to the computer's USB port when using EDIUS Broadcast.

- 1 Start up EDIUS.
- 2 Click the EDIUS mark and click "Tools" → "K2 Connect".



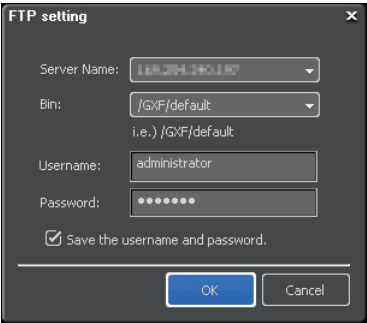
3 Right-click "K2 Server (FTP)", and click "Create new connection".



POINT

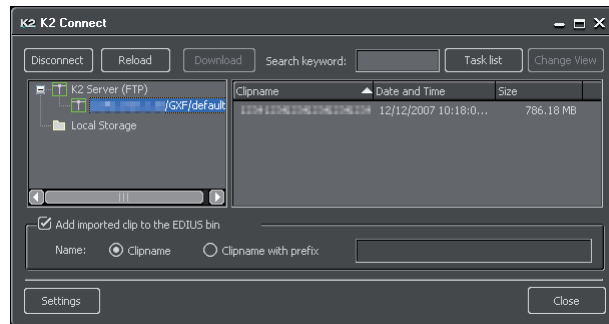
- When connecting to FTP server for the first time, double-click "New connection" for the same operation.
- To change a created FTP connection setting, right-click the server to change the settings, and click "Modify".
- To delete a created FTP connection setting, right-click the server to delete, and click "Delete".
- To open files existing in the local disk, double-click "Local Storage". Select GXF files and click [Open], to transcode GXF files to MXF format and save in a specified folder.

4 Define FTP settings and click [OK].



Server Name	Enter the address of the server.
Bin	The address of the bin is shown. Normally, you can use the address as is.
Username/ Password	Enter user name and password required when connecting.
Save the username and password.	Check it to register user name and password.

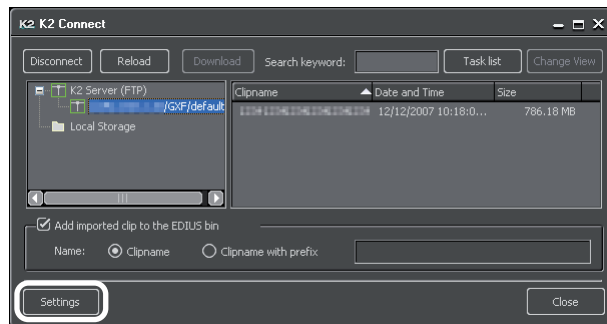
The clips on the server are listed.



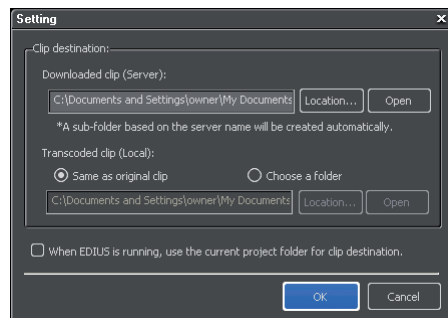
POINT

- To connect to a previously set FTP server, select the server and click [Connect].
- To reload updated clip list from the server, click [Reload].
- When entering a keyword in "Search keyword", clips which match the keyword are listed.

5 Click [Settings].

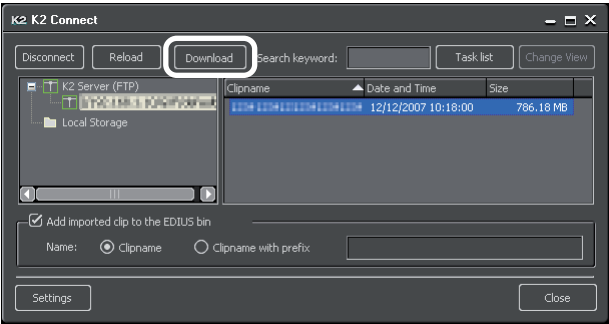


6 Set destination to save clips and click [OK].



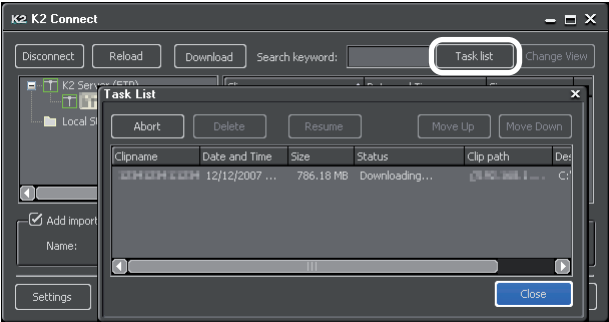
Downloaded clip (Server)	Specify the destination to save clips downloaded from FTP server.
Transcoded clip (Local)	<p>Specify the destination to save GXF files imported from the local disk. GXF files are transcoded when imported.</p> <p>Same as original clip</p> <p>Select it to save GXF files in the same location as the original file.</p> <p>Choose a folder</p> <p>Select it to save GXF files in a different location from the original file. Click [Location] to specify a folder.</p>
When EDIUS is running, use the current project folder for clip destination.	Check it to automatically save files in a folder specified as the project destination, while running EDIUS.

7 Select clips to store in the bin and click [Download].



Download is started.

Click [Task list], then "Task List" dialog box appears and currently downloaded clips appear on the list. When the download is completed, clips disappear from the list.



The status of download is displayed on the clip in the bin. When download is completed, the icon [H] disappears.



POINT

- K2 Connect downloading and conversion process will continue even after EDIUS is closed.
- To abort downloading and conversion process, click [Abort] in "Task List" dialog box. Alternatively, you can right-click K2 icon in the task tray and click "Abort".



- Select name option for clip to save in the bin from "Clipname" or "Clipname with prefix". Select "Clipname" to save the clip with the current file name. Select "Clipname with prefix" to add optional text to the current file name.
- Uncheck "Add Imported clip to the EDIUS bin" not to store downloaded files in the bin automatically.
- Click [Close] to close the dialog box. To stop K2 Connect residence, right-click K2 icon in the task tray and click "Close".

Notes

- The save destination of the clips already displayed in "Task List" dialog box cannot be changed.